

DOD Modeling and Simulation (M&S) Conference



"Taking the Power of Modeling and Simulation to the Warfighter"

IDMSC Conference Brochure

Hampton Roads Convention Center, VA

May 7-11, 2007



CONFERENCE INFORMATION

The Department of Defense (DoD) M&S Conference is the seminal event that brings together government executives, military leaders, industry leaders, strategic planners, and senior technical managers to formulate and communicate a common view of how best to use the power of M&S to enhance support to warfighters. The Conference also serves as an important forum for discussing and coordinating future plans, goals and programs within the DoD M&S community.

This Conference will be held in conjunction with the following M&S forums:

- Navy Modeling and Simulation Office Technical Interchange Meeting (TIM)
- Air Force Modeling and Simulation Conference
- Connections Conference
- Combined M&S Standards Steering Group (MS3G) Session

The DoD M&S Conference will highlight perspectives from the warfighter, major program initiatives, and industry with regard to M&S applied to five key organizational concepts:

- **E**mpowering the Warfighter
- **E**ffecting Change
- **E**nhancing Judgment
- **E**levating Combat Readiness
- **E**nergizing Command & Control





The Navy's Modeling and Simulation Office (NMSO) will sponsor a series of technical forums to facilitate sharing of information and keep abreast of technical developments in the M&S community. The Technical Interchange Meeting (TIM) promotes the open exchange of information and views within the Department of the Navy regarding the evolving role of modeling and simulation. Attendees represent both Marine and Navy operating forces, trainers, shore support activities, program managers, M&S laboratories and industry.



The annual Air Force M&S Conference will be held in conjunction with the DoD M&S Conference. The purpose of this event is to provide the Air Force M&S community a forum to discuss opportunities for Joint, Common, and General M&S capabilities along with our near-term objectives, showcase current successes, share solutions to common problems and provide an opportunity to visualize the future of Air Force M&S and its role in support of overall military operations.

CONNECTIONS 2007

Anticipating the Evolution of War

The annual Connections Conference will be held in conjunction with the DoD M&S Conference. Since 1993 Connections has worked to facilitate the advancement of the art and science of wargaming, bringing together leaders from all elements of the defense and commercial wargame communities as well as subject matter experts in areas often not adjudicated or not adjudicated well. Connections kicks off with a “First Timers” session, for all DoD M&S Conference participants, designed to provide a “101” overview of modeling, simulation and wargaming to those new to the field and a even faster overview of military affairs for the non-DoD civilians. Connections then provides a forum for describing advances in wargaming over the last year with more detailed briefings on specific military and commercial achievements. Connections also includes a demo phase, during which military and civilian wargaming organizations demo their latest software, a game phase during which participants get to actually use military and civilian wargames, and working group breakouts. This year’s breakouts are: Implementing the Wargaming Professional Society, Educating/Developing a Warfame Cadre, and Promoting Interchange Between Military/Civilian Wargaming.



A Combined M&S Standards Steering Group (MS3G) Session will be held as part of the conference agenda to provide an opportunity for the DoD, Joint and Service M&S Standards Project Leads to update the DoD M&S community on their respective M&S standards activities as well as an opportunity to discuss coordinated M&S Standards activities.

MONDAY, MAY 7, 2007

1000 - 1200	Service Oriented Architecture
Room 104	<i>Mr. Frank Carr</i> , Simulation Modeling Engineer, The MITRE Corporation
1300 - 1700	M&S and Wargaming 101
Ballroom F	<i>Mr. Matt Caffrey</i> , Chief, Wargaming HQ, Air Force Research Laboratory <i>Mr. Larry Harris</i> , M&S Information Analysis Center (MSIAC)
1300 - 1500	Overview for Adaptive Planning and Execution
Room 102	<i>CDR Brian Fort, USN</i> , Joint Staff, Directorate of Operational Plans and Joint Force Development (J-7), Joint Operational War Plans Division (JOWPD) <i>LTC Robert Klein, USA</i> , Joint Staff, Directorate of Operational Plans and Joint Force Development (J-7), Joint Operational War Plans Division (JOWPD)
1300 - 1600	Work Group: Joint Data Alternatives
Room 104	<i>Mr. Warren W. Bizub</i> , Deputy & Technical Chief, Joint Training & Education Capabilities Group, US Joint Forces Command
1300 - 1500	One Semi-Automated Force (OneSAF)
Room 105	<i>LTC Rob Rasch, USA</i> , Program Manager, OneSAF, PEO Simulation, Training, & Instrumentation
1300 - 1700	Future Combat System, Network Communication Effects Server (CES)
Room 106	<i>Mr. Oral Walker</i> , Deputy Director, Program Manager, Future Combat System, (Brigade Combat Team), Modeling and Simulation Office (MSO) <i>Mr. Kent Pickett</i> , Simulation Technology Project Officer, MITRE <i>Mr. Dilip Kumar</i> , FCS LSI Integrated Simulation & Test <i>Mr. Rajive Bagrodia</i> , Founder & CEO Scalable Network Technologies, Inc.
1300 - 1500	How to Request M&S Natural Environments Using the Environmental Scenario Generator (ESG)
Room 209	<i>Mr. Mark Webb</i> , Meteorologist/ Systems Analyst, Air Space Natural Environment / M&S Executive Agent

TUESDAY, MAY 8, 2007

0700 - 1730	Registration
0830 - 0835 Ballrooms EFG	Welcome/Administrative Remarks <i>RADM Fred Lewis, USN, (Ret.)</i> , President, National Training and Simulation Association
0835 - 0845	Welcome and Introduction of Plenary Session <i>Mr. Keith Seaman</i> , Senior Advisor, Command & Control (C2) Modeling & Simulation, Warfighter Systems Integration and Deployment (SAF/XCD), Office of Warfighting Integration & Chief Information Officer (SAF/XC), US Air Force
0845 - 0900	Keynote Speaker <i>Ross A. Kearney, II</i> , Mayor, City of Hampton, VA (Invited)
0900 - 0930	Keynote Speaker <i>LTG Bob Wood, USA</i> , Deputy Commander, US Joint Forces Command
0930 - 0945	Congressional M&S Leadership Forum Outbrief <i>RADM Fred Lewis, USN, (Ret.)</i> , President, National Training and Simulation Association
0945 - 1000	Conference Orientation and Purpose <i>Mr. Keith Seaman</i> , Senior Advisor, Command & Control (C2) Modeling & Simulation, Warfighter Systems Integration and Deployment (SAF/XCD), Office of Warfighting Integration & Chief Information Officer (SAF/XC), US Air Force
1000 - 1030	Ballrooms BC - Break
1030 - 1200	<u>Empowering the Warfighter</u> <u>Facilitator:</u> <i>COL Michael Armstrong, USA</i> , Chief, Joint Training Technologies Group, Joint Warfighting Center, USJFCOM <i>Dr. James Blake</i> , Program Executive Officer, Simulation, Training, & Instrumentation <i>Mr. Reese Madsen</i> , Senior Advisor for Professional Development, Personnel Development and Readiness Directorate, Office of the Under Secretary of Defense (Intelligence) <i>Ms. Monica Shepard</i> , Director, Innovation Division, US Joint Forces Command
1200 - 1330	Ballrooms BC - Conference Luncheon - Sponsored By: BAE SYSTEMS
1200 - 1600	DEMONSTRATIONS OPEN
1330 - 1500 Ballrooms EF	<u>Effecting Change</u> Using M&S to Deliver Weapon Systems “Faster, Better, Cheaper” to Support the Warfighter <u>Facilitator:</u> <i>Lt Col Brett Telford, USAF</i> , Principal Deputy for Modeling & Simulation, Developmental Test & Evaluation (OUSD(AT&L)/SSE) <i>Mr. John Fisher</i> , CVN 21 SGR MS&A Lead, Naval Air Systems Command <i>Mr. Richard Lockhart</i> , Principal Deputy Director, Test Resource Management Center, Office of the Under Secretary of Defense (Acquisition, Technology & Logistics) <i>Mr. Guy Higgins</i> , Vice President for Analysis, Modeling & Simulation, The Boeing Company
1330 - 1500 Ballroom G	<u>Elevating Combat Readiness</u> <u>Facilitator:</u> <i>CAPT Jeff Miller, USN</i> , Chief, Joint Exercise and Training Division, JS J7 <i>MG John McLaren, USA</i> , Vice Commander, Joint Warfighting Center, USJFCOM <i>Mr. Daniel E. Gardner</i> , Director, Readiness and Training Policy and Programs, Office of the Under Secretary of Defense for Personnel and Readiness
1500 - 1530	Break

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1530 - 1700	<p><u>Enhancing Judgement</u></p> <p><u>Facilitator:</u> <i>COL Jerry Glasow, USA</i>, Director, Modeling and Simulation Coordination Office</p> <p><i>Dr. Ralph Chatham</i>, Program Manager, Defense Sciences Office, Defense Advanced Research Projects Agency (DARPA) <i>Mr. Don Monell</i>, Manager, Crew Launch Vehicle Avionics Integration and Vehicle System Testing, Marshall Space Flight Center, National Aeronautics and Space Administration <i>Ms. Mary Ellen Hynes, PhD, PE</i>, Director of Research, Infrastructure and Geophysical Division, Science and Technology Directorate, Department of Homeland Security <i>Mr. Douglas Whatley</i>, Chief Executive Officer, BreakAway, LTD</p>
Ballrooms EF	
1530 - 1700	<p><u>Energizing Command and Control</u></p> <p><u>Facilitator:</u> <i>LTC Robert Klein, USA</i>, Joint Operational War Plans Division (JOWPD), Joint Staff J7</p> <p><i>BG Arthur M. Bartell, USA</i>, Vice Director, J-7, Joint Staff <i>Maj Gen Mike Hostage, USAF</i>, Director, Requirements & Integration, US Joint Forces Command <i>Brig Gen David Warner, USAF</i>, Director for Command and Control Programs, Defense Information Systems Agency</p>
Ballroom G	
1700 - 1730	M&S Awards Ceremony (Ballrooms EFG)
	Army M&S Awards
	<p>T&E: -Land Warrior Modeling and Simulation Integration Team, US Army TRADOC Analysis Center (TRAC)-White Sands Missile Range (WSMR)</p> <p>TRAINING: -Mr. Ben Jordan, US Army Training and Doctrine Command (TRADOC) Deputy Chief of Staff for Intelligence (DCSINT)</p> <p>STANDARDS/ BEST PRACTICES: -Robert Bowen, Chief, Gaming Division, Futures and Integration Directorate, The National Simulation Center, US Army TRADOC</p> <p>EXPERIMENTATION: -OneSAF (Semi-automated Forces) Objective System (OOS) Behavior Model Verification Team, US Army TRAC. The team also included members from the Naval Postgraduate School and Rolands and Associates Corporation.</p> <p>OPERATIONS: -Joint IED (Improvised Explosive Device) Defeat Organization (JIEDDO) M&S Development and Analysis Team, US Army TRAC, WSMR</p> <p>ACQUISITION: -Modeling Architecture for Technology, Research and Experimentation MATREX Project Management Office, Research, Development and Engineering Command (RDECOM), US Army Materiel Command (AMC)</p> <p>ANALYSIS: -Unmanned Aircraft Systems (UAS) Investment Strategy Team, US Army TRAC, Ft. Leavenworth</p> <p>CROSS FUNCTIONAL: -Infantry Warrior Simulation (IWARS) Development Team, US Army, RDECOM, (AMC) The IWARS team is composed of members from Army Natick Soldier RDE Center, Army Materiel Systems Analysis Activity (Aberdeen, MD) and Army Research Laboratory - Human Research and Engineering Directorate, Aberdeen, MD and General Dynamics.</p>

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Navy M&S Awards	
	<p>ANALYSIS COMMUNITY: -Seabasing Aviation Model (SAM), Kristi Ross and Chris Schaland, NAVAIR; Major Gary Loberg, OPNAV</p> <p>COMMON AND CROSS-CUTTING CATEGORY: -Ms. Debra “Sunny” Conwell, LCDR Jeff DeBrine, Sharon Nichols, Balf Callaway, LtCol Dave McCormick; OPNAV N81 World Class Models</p> <p>TRAINING COMMUNITY: -Amphibious Assault Vehicle Turret Trainer, Development Team - PM TRASYS USMC</p> <p>RESEARCH, DEVELOPMENT & ACQUISITION (RDA) COMMUNITY: -Program Executive Office Integrated Warfare Systems (IWS), T&E Enterprise Team, Naval Sea Systems Command</p>
Air Force M&S Awards	
	<p>ACQUISITION: -Airborne Electronic Attack (AEA) Simulation Team, Simulation and Analysis Facility (SIMAF), Aeronautical Systems Center (ASC)</p> <p>ANALYSIS: -SERPENT Operational Reachback Team, Combating WMD Division, Air Force Nuclear Weapons and Counter-proliferation Agency (AFNWCA)</p> <p>CROSS-FUNCTIONAL: -Skunk Works Wargaming M&S Team, Concepts, Strategy, and Wargaming Division, HQ USAF</p> <p>EXPERIMENTATION: -Directed Energy (DE) Directorate’s M&S Team, Air Force Research Laboratory (AFRL)</p> <p>PLANNING: -Distributed Training Operations Center (DTOC), 132nd Fighter Wing</p> <p>TEST AND EVALUATION: -Capt Brian D. Smith, M&S Analyst, HQ Air Force Operational Test and Evaluation Center (AFOTEC)</p> <p>TRAINING -Distributed Mission Operations Center (705th Combat Training Squadron), 505th Distributed Warfare Group, 505th Command and Control Wing</p>

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	DoD Awards
	<p>ACQUISITION COMMUNITY COMMON AND CROSS-CUTTING:</p> <ul style="list-style-type: none"> -Acquisition Modeling and Simulation Working Group (AMSWG) of the DoD Systems Engineering Forum <p>ANALYSIS COMMUNITY COMMON AND CROSS-CUTTING:</p> <ul style="list-style-type: none"> - World Class Models Initiative (WCM) of the Naval Operations' (OPNAV) Assessment Division (N81) - Operational Reachback Team of the Weapons of Mass Destruction Division, Air Force Nuclear Weapons and Counterproliferation Agency <p>EXPERIMENTATION COMMUNITY COMMON AND CROSS-CUTTING:</p> <ul style="list-style-type: none"> - Modeling and Simulation Division of the US Joint Forces Command's Joint Innovation and Experimentation Directorate (J-9) <p>PLANNING COMMUNITY COMMON AND CROSS-CUTTING:</p> <ul style="list-style-type: none"> - Integrated Consumable Item Support (ICIS) Team of the Defense Logistics Agency - Adaptive Planning Implementation Team (APIT) of the Joint Staff, J-7 <p>TESTING & EVALUATION COMMUNITY COMMON AND CROSS-CUTTING:</p> <ul style="list-style-type: none"> - US Navy's Next Generation Command and Control Processor (NGC2P) Test and Evaluation Team of the Commander, Operational Test and Evaluation Force (COMOPTEVFOR) <p>TRAINING COMMUNITY COMMON AND CROSS-CUTTING:</p> <ul style="list-style-type: none"> - US Army CW5 Harvey Jackson, Director of the Army's Wheel Vehicle Maintenance School, 187th Ordnance Battalion <p>MULTI-COMMUNITY COMMON & CROSS-CUTTING:</p> <ul style="list-style-type: none"> - Ambiguity and Human Intelligence (HUMINT) Methodology Integrated Product Team (IPT) of the US Army Training and Doctrine Command (TRADOC) Analysis Center - Modeling and Simulation Branch (A5XS) of the Headquarters, Air Force Concepts, Strategy, and Wargaming Division
	NTSA M&S Awards
	<p>TRAINING:</p> <ul style="list-style-type: none"> - Simulation Development Team, Moog FCS / FlightSafety International -Air Traffic Simulation Training Team, Federal Aviation Administration <p>ACQUISITION:</p> <ul style="list-style-type: none"> - Flight School XXI Simulation Services Team, Computer Sciences Corporation / L-3 Communications / FlightSafety International <p>CROSS-FUNCTIONAL:</p> <ul style="list-style-type: none"> - Mr. John Noss, General Dynamics Information Technology
1730 - 1830 Level 2	<p>Reception in Honor of Awardees - Sponsored by City of Hampton (No Host Reception (Cash Bar))</p> 

WEDNESDAY, MAY 9, 2007

0700 - 1730	Registration
0800 - 0810	Welcome
Ballrooms EFG	<i>Mr. Keith Seaman</i> , Senior Advisor, Command & Control (C2) Modeling & Simulation, Warfighter Systems Integration and Deployment (SAF/XCD), Office of Warfighting Integration & Chief Information Officer (SAF/XC), US Air Force
0810 - 0830	<u>DoD M&S Overview</u> <i>Mr. James Bexfield</i> , M&S Steering Committee Tri-Chair; Director, Study & Analytical Support Division, Office of the Director, Program Analysis & Evaluation (ODPA&E) <i>Mr. Fred Hartman</i> , M&S Steering Committee Tri-Chair; Deputy Director, Readiness Training Plans and Programs, OUSD/P&R(RTPP) <i>Mr. Alan Shaffer</i> , (via video) - M&S Steering Committee Tri-Chair; Director, Plans and Programs, Office of Director, Defense Research Engineering
0830 - 1015	<u>DoD Communities - Overview of M&S Activities</u> <i>Mr. Christopher DiPetto</i> , Acquisition Community, M&S Steering Committee Member <i>Mr. Richard Lockhart</i> , Test and Evaluation Community, M&S Steering Committee Member <i>Mr. Fred Hartman</i> , Training Community, M&S Steering Committee Member <i>Mr. Bud Hay</i> , Experimentation Community, M&S Steering Committee Member <i>BG Arthur M. Bartell, USA</i> , Planning Community, M&S Steering Committee Member <i>Mr. James Bexfield</i> , Analysis Community, M&S Steering Committee Member
1015 - 1045	Break
1000 - 1600	DEMONSTRATIONS OPEN
Ballrooms EFG	PROGRAM BRIEFS - COMMON & CROSS-CUTTING IMPACT Concurrent Sessions with Community Focus Groups
1045 - 1110	<u>Operationalizing Standards</u> <i>COL Michael Armstrong, USA</i> , Joint Training Technologies Group, Joint Warfighting Center, USJFCOM
1110 - 1150	<u>Future Combat System (FCS) Strategy for Integrating Modeling and Simulation into Army Acquisition Programs - "Cross Command Collaboration Effort (3CE) M&S Support to Army Analysis, Testing, Evaluation and Training"</u> <u>Modeling Architecture for Technology, Research, and Experimentation (MATREX)</u> <u>OneSemi-Automated Force (OneSAF)</u> <i>COL Andrew Riley, USA</i> , Simulations Division, US ARMY TRADOC <i>Mr. Tom Hurt</i> , Program Manager for MATREX <i>LTC Rob Rasch, USA</i> , Program Manager, OneSAF
1150 - 1300	Box Lunch - Sponsored By: 
1300 - 1325	<u>Incentivizing Reuse - A New M&S Business Model</u> <i>Mr. James Hollenbach</i> , CEO, Simulation Strategies, Inc., Chairman, M&S Committee, National Defense Industrial Association
1325 - 1350	<u>Live Virtual and Constructive (LVC) Architecture Project</u> <i>Mr. Kenneth Goad</i> , Project Manager, LVC Architecture Project, Joint Warfighting Center, USJFCOM
1350 - 1415	<u>Joint Rapid Scenario Generation (JRSG)</u> <i>Mr. Charles W. "Bill" Robinson</i> , Joint Force Trainer Capabilities Development Group US Joint Forces Command
1415 - 1440	<u>Modeling and Simulation for Enterprise Test and Evaluation</u> <i>Ms. Shala Malone</i> , Combat System Performance Manager, Program Executive Office, Integrated Warfare Systems
1440 - 1505	<u>Joint Test & Evaluation Methodology (JTEM)</u> <i>Col Eileen A. Bjorkman, USAF</i> , JTEM Director, Joint Test & Evaluation Center
1505 - 1535	Break
1535 - 1600	<u>Modeling & Simulation in DDG 1000 Test & Evaluation</u> <i>Ms. Libby Unruh</i> , DDG 1000 Test & Evaluation M&S Management <i>Ms. Lucia Perkins</i> , DDG 1000 Test & Evaluation M&S Management

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1600 - 1625	<u>Joint Mission Environment Test Capability (JMETC)</u> <i>Mr. Chip Ferguson</i> , Program Manager, JMETC, Test Resource Management Center, OUSD(AT&L)
	Return to General Session
1630 - 1730	<u>Leveraging Gaming Technology</u> <u>Facilitator:</u> <i>Mr. Keith Seaman</i> , Senior Advisor, Command & Control (C2) Modeling & Simulation, Warfighter Systems Integration and Deployment (SAF/XCD), Office of Warfighting Integration & Chief Information Officer (SAF/XC), US Air Force <i>Dr. Roger Smith</i> , Chief Scientist and Chief Technology Officer, US Army PEO STRI <i>Mr. Jerry Heneghan</i> , Founder & Chief Executive Officer, Virtual Heroes, Inc. <i>Mr. Douglas Whatley</i> , Chief Executive Officer, BreakAway, Ltd. <i>Mr. David "Bart" Bartlett</i> , Vice President of Marketing, Forterra Systems, Inc. <i>Dr. Edward M. Robinson</i> , Chief Technology Officer, Binary Group
1730	<u>DMSC Closing Remarks</u> <i>Mr. Keith Seaman</i> , Senior Advisor, Command & Control (C2) Modeling & Simulation, Warfighter Systems Integration and Deployment (SAF/XCD), Office of Warfighting Integration & Chief Information Officer (SAF/XC), US Air Force
	COMMUNITY FOCUS GROUPS Concurrent Sessions with Program Briefs
1030 - 1230	<u>Experimentation Community: Political, Military, Economic, Social, Infrastructure, Information (PMESII) and Noble Resolve</u>
Room 102	<i>Mr. Anthony Cerri</i> , Experimentation Engineering Support Department Lead US Joint Forces Command J9938
1030 - 1430	<u>Acquisition Community: Joint M&S Workforce Development</u> <i>CAPT Michael Lilienthal</i> , USN, Director, RDA Modeling & Simulation, ODASN(RDT&E) <i>Dr. Edward Degnan</i> , Chief, Workforce Development Branch, Air Force Agency for Modeling & Simulation, (AFAMS) <i>Ms. Jean Johnson</i> , Program Manager, Naval Postgraduate School <i>Mr. Gary Dahl</i> , Development Program Manager, Deputy Chief of Staff G-3/7 Battle Command Directorate, US Army
Room 103	
1230 - 1430	<u>T&E Community: M&S Initiatives for FY07</u>
Room 102	<i>Mr. Chip Ferguson</i> , Program Manager, Joint Mission Environment Test Capability, Test Resource Management Center, OUSD(AT&L)
1230 - 1430	<u>Briefing to Industry on Adaptive Planning and Execution</u> <i>CDR Brian Fort</i> , USN, Joint Operational War Plans Division (JOWPD), Joint Staff J7 <i>LTC Robert Klein</i> , USA, Joint Operational War Plans Division (JOWPD), Joint Staff J7
Room 104	
1430 - 1630	<u>Training Community: Beyond Training: Reaching Out Across Communities</u>
Room 105	<i>Mr. Fred Hartman</i> , Deputy Director, Readiness Training Plans and Programs, OUSD/P&R(RTPP)
	Return to General Session
1630 - 1730	<u>Leveraging Gaming Technology</u> <u>Facilitator:</u> <i>Mr. Keith Seaman</i> , Senior Advisor, Command & Control (C2) Modeling & Simulation, Warfighter Systems Integration and Deployment (SAF/XCD), Office of Warfighting Integration & Chief Information Officer (SAF/XC), US Air Force <i>Dr. Roger Smith</i> , Chief Scientist and Chief Technology Officer, US Army PEO STRI <i>Mr. Jerry Heneghan</i> , Founder & Chief Executive Officer, Virtual Heroes, Inc. <i>Mr. Douglas Whatley</i> , Chief Executive Officer, BreakAway, Ltd. <i>Mr. David "Bart" Bartlett</i> , Vice President of Marketing, Forterra Systems, Inc. <i>Dr. Edward M. Robinson</i> , Chief Technology Officer, Binary Group
Ballrooms EFG	
1730	<u>DMSC Closing Remarks</u> <i>Mr. Keith Seaman</i> , Senior Advisor, Command & Control (C2) Modeling & Simulation, Warfighter Systems Integration and Deployment (SAF/XCD), Office of Warfighting Integration & Chief Information Officer (SAF/XC), US Air Force

0800	<p>Welcome: Mr. Keith Seaman, Senior Advisor, Command and Control Modeling and Simulation (SAF/XCD-SL)</p>
0810	<p>Keynote Address: Dr. Jacqueline Henningsen, Director, Air Force Studies and Analyses, Assessments and Lessons Learned (AF/A9)</p>
0835	<p>AF M&S Strategic Vision: Mr. Keith Seaman, Senior Advisor, Command and Control Modeling and Simulation (SAF/XCD-SL)</p>
0905	<p>Live Virtual and Constructive (LVC) Integration / M&S Workforce / Education: Dr. Ed Degnan, Chief, Workforce Development Branch, Foundations Division (AFAMS/MSF)</p>
0930 - 1400	DEMONSTRATIONS OPEN
0950	Break
1015	<p>Warfighter Focused Events: Lt Col Donald Drechsler, Commander, 705th Combat Training Squadron (705 CTS/CC)</p>
1055	<p>M&S Support to the Air Operations Center (AOC): Ms. Lillian Campbell - Wynn, Chief, Exercise/Warfighting Headquarters and Component - Numbered Air Force Support Division (AFAMS/MSX)</p>
1130	<p>Conduct Air, Space & Cyber Ops (CASCO) Key Process Strategic Fuels Initiative – Flying Training Migration to Aircrew Training Devices: Col Anne Dunlap, Core Team Lead, CASCO Key Process, IMA, Directorate of Warfighter Systems Integration and Deployment (SAF/XCD)</p>
1200	Box Lunch
1330	<p>Wargame Information Environment in Unified Engagement 06: Lt Col William Power, Chief, Modeling and Simulation Branch, Concepts, Strategy, and Wargaming Division (AF/A5XS)</p>
1415	<p>Air Force - Integrated Collaborative Environment (AF-ICE): Mr. Kelly Dalton, Chief, Modeling and Simulation Division (ASC/XRA)</p>
1445	Break
1500	<p>Computational Research and Engineering Acquisition Tools and Environments for Aeronautical Vehicles (CREATE-AV): Dr. Edward Kraft, Chief Technologist, Arnold Engineering Development Center (AEDC/CZ)</p>
1545	<p>Synthetic Theater Operations Research Model (STORM) Update: Lt Col David McCormick, Deputy Director, Analyses, Foundations and Integration Directorate (AF/A9I)</p>
1615	<p>Closing Remarks: Mr. Keith Seaman, Senior Advisor, Command and Control Modeling and Simulation (SAF/XCD-SL)</p>
1630	Adjourn

TIM Theme: Alternative Methods to Develop and Sustain Navy Modeling and Simulation

The purpose of Navy Technical Interchange Meetings (TIMs) is to promote an open exchange of information and views within the DON regarding the evolving role of M&S. The focus of this, the eighteenth TIM, is on examining alternative approaches (successful or not) to fund the development, deployment and sustainment of Navy M&S applications. Various programs will brief their alternative methods, evaluate how successful they were and describe major issues. The presentations will explore how the representative systems were advocated, sponsored, managed, enhanced, deployed and supported over their lifecycle. We will also discuss the impacts of having limited funding available for improvements. The day will conclude with a moderated roundtable focused on: processes used to enhance system capabilities; systems development and deployment; logistic/sustainment CONOPS; future integration plans; and key issues when deploying M&S capabilities.

- 0830** **Welcome:**
Mr. John Moore, Director, NMSO
- 0835** **The CNO's World Class Modeling Initiative:**
LCDR Jeff DeBrine, Assistant Manager WCM Program, OPNAV
- 0915** **A Business Case for Model Management:**
Mr. Ron Ketcham, Head Survivability Assessment, NAVAIR
- 1000** **Experiences Obtaining Sustainment Funds for the Fast Assessment Strike Tool for Collateral Damage (FAST-CD):**
Ms. Sue Hyatt-Tracy, FAST Program Manager, Naval Surface Warfare Center Dahlgren Division
- 0930 - 1400** **DEMONSTRATIONS OPEN**
- 1030** **Break**
- 1045** **Recent Efforts to Develop and Sustain the Naval Simulation System (NSS):**
Mr. John Koleny, NSS Model Manager, NAVAIR
- 1115** **Naval Aviation Simulation Master Plan - Leading Navy Aviation Training to the Next Level:**
Ms. Lori Lane, NASMP Lead Engineer, NAVAIR
- 1145** **Box Lunch**
- 1300** **Using OPEN Source Software for Military M&S:**
Mr. Perry McDowell, Executive Director, Delta 3D Game Engine; Modeling, Virtual Environments, and Simulation Institute (MOVES), Naval Postgraduate School
- 1345** **SPAWAR's C4ISR Assessment Center of Excellence Approach to Develop and Sustain Navy M&S:**
Dr. Bill Rix, SPAWAR San Diego, Code 051
- 1430** **New Concepts in High Fidelity EW Simulation for Systems Assessment:**
Mr. John Binford, EW M&S Branch Head, NRL
- 1515** **Break**
- 1530** **Panel Led Discussion: How do you plan for M&S Sustainment and how can the communities help**
- 1630** **Adjourn**

THURSDAY, MAY 10, 2007

ROOMS 102 & 103

0800 Welcome - Keynote Mr. Bud Hay, Director Joint Concept Development, Joint Forces Command

0900 Break

0920 Military Needs
Title 10

Col Allan Moore, USAFR (Ret), AF/A8XC

Operations Planning

Col Westy Westenhoff, USAF (Ret) Checkmate

Military Education

Dr. Stephen Downes-Martin, NAVWARCOL

0930 - 1400 DEMONSTRATIONS OPEN

1040 Break

1100 Wargaming, 06 in Review/07 in Preview

Military Wargaming

Col Matt Caffery, USAFR (Ret)

Commercial Wargaming

Capt David Mather, USAF

1200 - 1320 Lunch

1220 - 1320 Military Year in Review
John Gresham, Author

1320 Bringing COTS to the Warfighters+
Dr. Leigh Flagg, Establishing the Science of WGs for Experimentation
Jon Compton, Modern Conflict Studies Group (MCSG) – Millennium Wars II
Joe Miranda, Modern Conflict Studies Group (MCSG) – Millennium Wars II
Dale Owen Hillier, Advanced Gaming - Harpoon 3
Jason Robar, DARPA's "AMBUSH" Program - Operation Flashpoint

1450 Break

1510 Working Groups

Implementing the Wargaming Professional Society, Co-chairs:

RM 104 *Prof Robert "Barney" Rubel, Dean, Center for Naval Warfare, NWC*
Col Russell "Rudder" Smith, Director, Air Force Wargaming Institute

Educating/Developing a Wargame Cadre, Co-Chairs:

RM 105 *Mr. Paul Vebber, CDR, USNR, (RET), Naval Undersea Warfighting Center*
Mr. Brian Teer, Division Manager, Alion Science and Technology

Promoting Interchange Between Military/Civilian Wargaming, Co-Chairs:

RM 109 *Capt Ulric Adams, Air Force Agency for Modeling and Simulation*
Mr. Mike Markowitz, Center for Naval Analysis (CNA)

CONNECTIONS SESSION

ROOMS 102 & 103

FRIDAY, MAY 11, 2007

- 0800 - 1000** Working Groups Report Findings
 Implementing the Wargaming Professional Society
 Educating/Developing a Wargame Cadre
 Promoting Interchange Between Military and Civilian Wargaming
- 1000 -1020** Break
- 1020 -1100** Connections Conference “Hot Wash”

CONNECTIONS SESSION

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COMBINED M&S STANDARDS STEERING GROUP (MS3G) SESSION

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|------------------|--|
| 0830-0900 | DoD Coordinated M&S Standards Activities and Process
DoD M&S Coordination Office (M&S CO) M&S Standards Project Lead |
| 0900-0930 | Army Model and Simulation Office (AMSO) M&S Standards Program Update
AMSO M&S Standards Project Lead |
| 0930-1000 | Air Force Agency for Modeling and Simulation (AFAMS) M&S Standards Program Update
AFAMS M&S Standards Project Lead |
| 1000-1030 | Navy Modeling and Simulation Office (NMSO) M&S Standards Program Update
NMSO M&S Standards Project Lead |
| 1030-1100 | Marine Corps Modeling & Simulation Management Office (MCMSMO) M&S Standards
Program Update
MCMSMO M&S Standards Project Lead |
| 1100-1130 | Joint Forces Command (JFCOM)/Joint National Training Capability (JNTC) M&S
Standards Program Update
JFCOM/JNTC M&S Standards Project Lead |
| 1130-1200 | Discussion |

BOARD ROOM B FRIDAY, MAY 11, 2007

The University of Central Florida will offer a three-hour Management of Modeling and Simulation Projects workshop. *There is an additional \$95 fee for this workshop, and a separate registration is required.*

PART I: Overview of Modeling and Simulation for Managers (1/2 hour)

1. Basic Definitions, History, and Foundational Idea in M&S

- a. What is meant by “M&S”?
- b. Brief History of M&S
- c. Evolution of M&S
- d. Modern Concept of M&S
- e. Classification Schemes
- f. Taxonomy of M&S Tools

2. M&S Architecture Overview and Lessons Learned

- a. Architecture Overview
- b. DoD Architecture Framework
- c. Different Scales of Consideration
- d. Architecture Scales Considerations

PART II: M&S Development Issues (1 hour)

1. M&S Development Issues

- a. Phases and Products in the M&S Development Cycle
- b. Ideal Integration
- c. M&S Demands and Innovation

2. M&S Interoperability

- a. What Problems Are We Trying to Solve and Why?
- b. Overview of Existing Techniques
 - i. Aggregate Level Simulation Protocol
 - ii. Distributed Interactive Simulation Protocol
 - iii. High Level Architecture for Simulation
 - iv. Test and Training Network Architecture
 - v. Common Training Instrumentation Architecture

3. The Data Problem in M&S

- a. What Makes the Problem so Hard?
- b. Who Creates the Data?
- c. What are Some of the Major Data Types?
- d. Why Will This Only Get More Complicated?
- e. What is the Being Done About the Problem?

4. Verification, Validation, and Accreditation in M&S

- a. Basic Concepts
 - i. What is VV&A With Respect to M&S?
 - ii. Why Do We Care About VV&A of Models and Simulation
- b. Basic Definitions
- c. Overview of Processes
- d. Overview of VV&A Policies and Related Agencies

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PART III: Modeling and Simulation Project Management Fundamentals (1.5 hours)

- 1. Earned Value Management and M&S**
 - a. Elements of EVM**
 - b. Instrumentation of Your Organization and Processes to Support EVM**
 - c. Processes and EVM**
 - d. Technology Assistance for EVM**
- 2. Implementing Processes**
 - a. Why is this Worthy of Special Attention?**
 - b. International Standards Organizations Initiatives**
 - c. Software Engineering Institute Initiatives**
 - d. Parallels Between These Approaches**
 - e. Tips for Cost Effective Implementation**
- 3. Cost Estimation**
 - a. Key Pitfall: Cost Estimation Problemem**
 - b. Cost Estimation Techniques**
 - c. Cost Estimation Tools**
 - d. Use of Subject Matter Experts and Historical Cost Analysis**
- 4. Acquisition Overview for M&S**
 - a. Users and Sponsors - The Customer**
 - b. Requirements Development and Management**
 - c. Key Pitfall: Requirements Creep**
 - d. Architecture Formalism Management**
 - e. Communications**
 - f. Proposal Development**
 - g. Certified M&S Professional Program and Acquisition**

“Disclaimer requested by the DoD M&S Coordination Office: “While DoD supports the offering of courses on M&S by academia and industry, DoD does not sponsor or endorse specific offerings, institutions, or companies in doing so. UCF’s offering of this course is on its own initiative.”